CaTop UD 360

Product Data Sheet

UDB / UDB-eA

CE 24

Product description

CaTop UD 360 is an underlay membrane with a special, durable, monolithic polyurethane (TPU) functional layer on both sides, as well as a tear-resistant non-woven fabric polyester in the centre.

Application

This underlay membrane complies with EN 13859-1 and can be used for extended applications of classes 1 and 2 in accordance with the ZVDH regulations. As a premium product, the membrane is designed to be windproof, rainproof and waterproof. Homogeneous seam connections can be created using a THF solvent welding agent or hot air.

Advantages

- **Suitable for Class 1+2 as an underlay membrane for extended applications of the ZVDH (German Roofing Contractors Association)**
- **Particularly well suited to roof-integrated PV and solar systems**
- **The robust structure ensures high watertightness and good weldability**
- **Increased resistance to driving rain, as proven by the TU Berlin method**
- **Tested abrasion resistance, as detailed in the Martindale test (product data sheet UDB-eA)**

Product information (EN 13859-1)

CaTop UD 360 is an energy-efficient, diffusion-open, premium underlay membrane that can be welded either hot or cold. It has a three-layer structure consisting of two durable, monolithic polyurethane functional layers and a centrally positioned non-woven fabric. Designed as a premium product, the membrane is intended for use as a wind-, rain- and waterproof underlay for a range of applications (UDB-eA). Its fast reaction time during welding and flexibility enable efficient and easy processing. CaTop UD 360 is particularly suitable for use on flat roofs that fall below the standard roof slope. It can be used for extended applications in accordance with Classes 1 and 2 of the ZVDH regulations, as well as Type 2 in Austria and for extraordinary loads in Switzerland. This enables a diffusion-open roof construction up to the minimum roof slope of the roofing material.

Additional test certificates

- Driving Rain Test (TU Berlin)
- Abrasion resistance (Martindale test)

System information

The generally accepted rules of technology, the latest version of technical regulations (e.g., those of the ZVDH), the CaPlast processing instructions, and all other applicable manufacturer guidelines, rules, and standards must be observed during processing.

Application

Processing instructions: https://www.caplast.de/en/downloads

Important information
Due to climate change, underlay membranes are increasingly exposed to the weathering effects of intense sunlight, extreme temperatures and heavy precipitation (such as hail and rain), which can lead to degradation and premature ageing. To ensure the longevity of underlay membranes, additional protective measures should be taken during processing at high temperatures. In areas subject to heavy wear, the membrane surface must be specially protected to prevent damage to the top layer. During the hot summer months, the membrane should be covered promptly to avoid excessive UV exposure

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Technical Information

KEY FEATURES	RULES AND REGULATIONS	NOMINAL VALUES	TOLERANCE	
			min	max
Fire behavior	EN 13501-1 / EN ISO 11925-2	E*		
Water vapor permeability sd (m)	EN ISO 12572-C	< 0.5		0.5
Resistance to water penetration	EN 1928 Method A	W 1		
Maximum tensile strength (L / T) (N / 50 mm)	EN 12311-1	380 / 400	320 / 340	460 /480
Elongation at maximum tensile strength (L / T) (%)	EN 12311-1	40 / 50	20 / 30	60 / 80
Artificial aging through UV and heat	**EN 1297 and EN 1296**			
Resistance to water penetration	EN 1928 Method A / PDB UDB-eA	W 1		
Maximum tensile strength (L / T) (N / 50 mm)	EN 12311-1	> 65% of the value before aging		
Elongation at maximum tensile strength (L / T) (%)	EN 12311-1	> 65% of the value before aging		
Tear resistance (nail shaft) L / T (N)	EN 12310-1	240 / 240	200 / 200	300 / 300
Cold bending behaviour (°C)	EN 1109	< - 20		- 20
Hazardous substances	EU 1907:2006	none		
Other properties				
Length (m)	EN 1848-2	various		
Width (cm)	EN 1848-2	various		
Straightness (< 30 mm / 10 m)	EN 1848-2	passed		
Weight per unit area (g / m^2)	EN 1849-2	380	350	420
Weight per unit area of the permanently waterproof functional layer (g/m^2)	PDB UDB-eA / EN 1849-2	220	220	
Thickness (mm)	EN 1848-2	0.8	0.6	1.0
Dimensional stability (%)	EN 1107-2	< 1		1
Seam waterproofness	EN 1928:2000, Process A (EN 13859-1 Annex F)	passed		
Additional requirements				
Water pressure resistance (cm WS)	EN ISO 811	> 1000		1000
Driving rain test by TU Berlin		passed		
Classification according to the ZVDH product data sheet	(extended applications)	UDB / UDB-eA		
Temporary covering with suitable and approved adhesive technology (weeks)	With seam and perforation protection	12		
Abrasion resistance (top and bottom)	Martindale-Test PDB UDB-eA	passed		
Temperature range (°C)**		- 20 to + 80		

* Laid on support board in accordance with EN 13238
** Based on cold bending behavior (EN 1109) and aging temperature (EN 1296)

General information

Underlay and sarking membranes should be stored in a dry place, away from UV radiation. The products must also be stored frost-free at temperatures below +40°C. The storage period for the products is 48 months. This product complies with Construction Products Regulation (EU) No 305/2011, EN 13859-1/-2 (Roof underlays and sarking membranes for roofs, Annex ZA), and is manufactured under an ISO 9001 quality management system.

Version: November 2026 (all technical data sheets prior to this date are invalid)

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Note:
This document replaces all previous versions. To obtain the latest versions of the technical documentation, including the technical data sheet, declaration of performance and installation instructions, scan the QR code or use this link: https://www.caplast.de/en/downloads.

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